

INSTALLATION INSTRUCTIONS

TELEPHONE HANDSET

MODEL

**MA-44
MA-79
MA-126**

MA-44, MA-79, MA-126

INSTALLATION INSTRUCTIONS

A. GENERAL

The MA-44 is a telephone handset with a 4 pin microphone connector wired for use with BTL, BTH, Marine, and Amateur Radio Equipment manufactured before December, 1975. The MA-44 contains a hang-up cradle for convenient mobile mounting of the handset.

The MA-79 is a telephone handset with a 5 pin microphone connector wired for use with BTL, BTH, Marine, and Amateur Radio Equipment manufactured after December, 1975. The MA-79 contains a hang-up cradle for convenient mobile mounting of the handset.

The MA-126 is a telephone handset with a cradle hang-up switch that provides speaker muting and tone squelch hang-up activation. The MA-126 is intended for use with BTL 300 series, BTH 200 series, Micro-Com 20 series, and Micro-Com U10 series radios with 5 pin microphone connectors manufactured after December, 1975.

B. INSTALLATION (Refer to section covering radio to be modified)

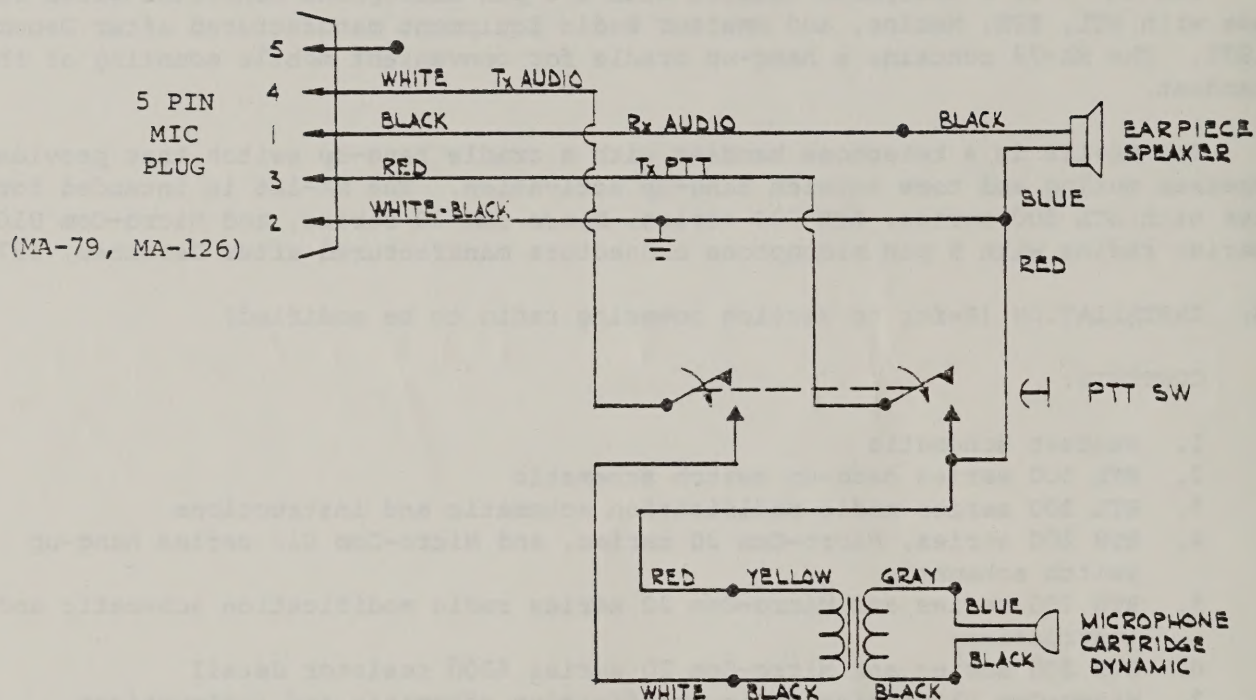
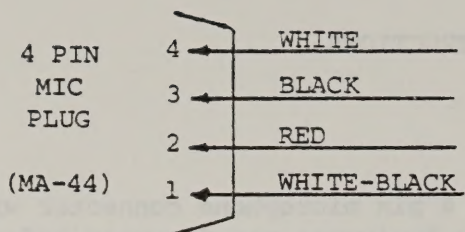
CONTENTS:

1. Handset schematic
2. BTL 300 series hang-up switch schematic
3. BTL 300 series radio modification schematic and instructions
4. BTH 200 series, Micro-Com 20 series, and Micro-Com U10 series hang-up switch schematic
5. BTH 200 series and Micro-Com 20 series radio modification schematic and instructions
6. BTH 200 series and Micro-Com 20 series 680 Ω resistor detail
7. Micro-Com U10 series radio modification schematic and instructions

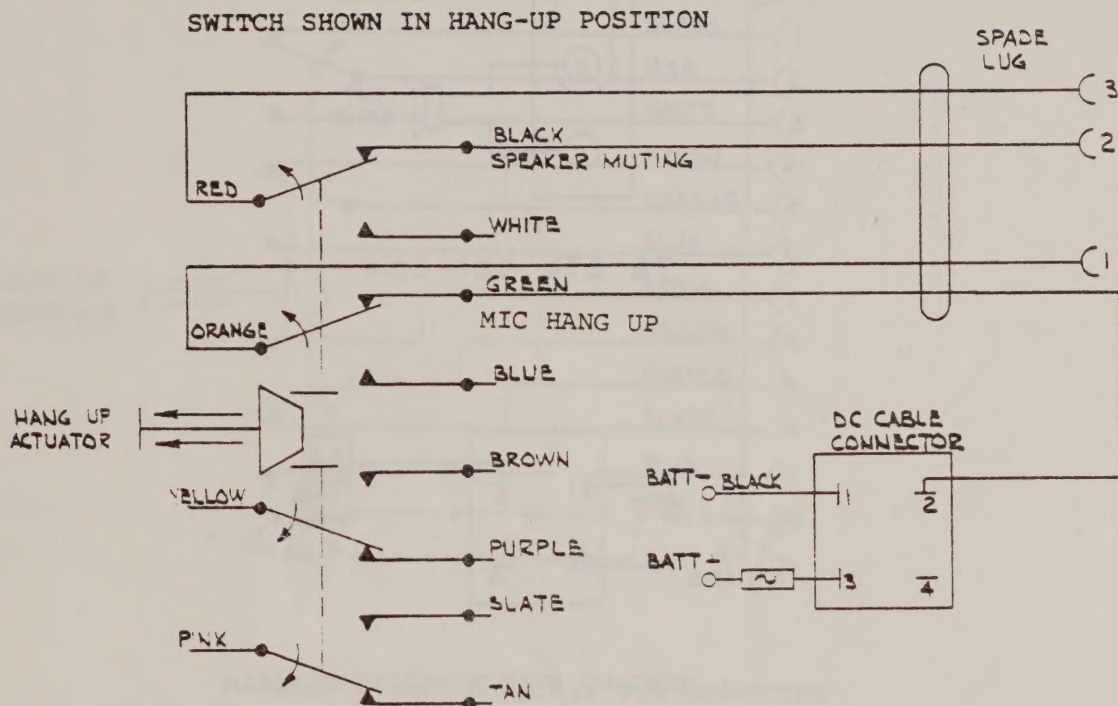
NOTE: If hang-up switch not desired, remove 4 back plate screws and back plate, then remove two screws on front of unit and complete switch assembly can then be removed.

NOTE: Additional options may be added to hang-up switch at technicians discretion; order additional pins for radio interconnect purposes, MA-85 accessory connector kit.

NOTE: Remote speakers MA-8 and MA-108 will still operate normally unless wired parallel to internal speaker.

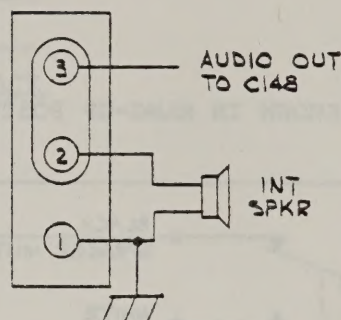
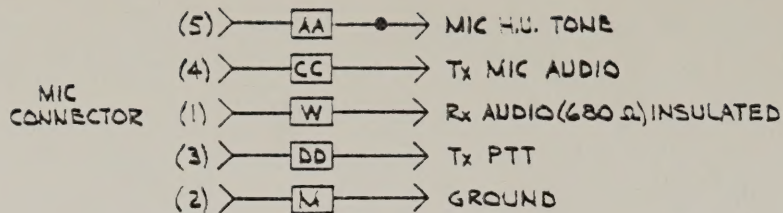


HANDSET SCHEMATIC

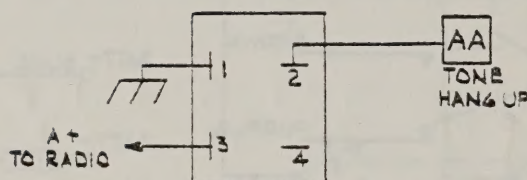


BTL 300 HANG-UP SWITCH

(MA-126)



TB BTL 301-304



HANG-UP SWITCH WIRING DIAGRAM

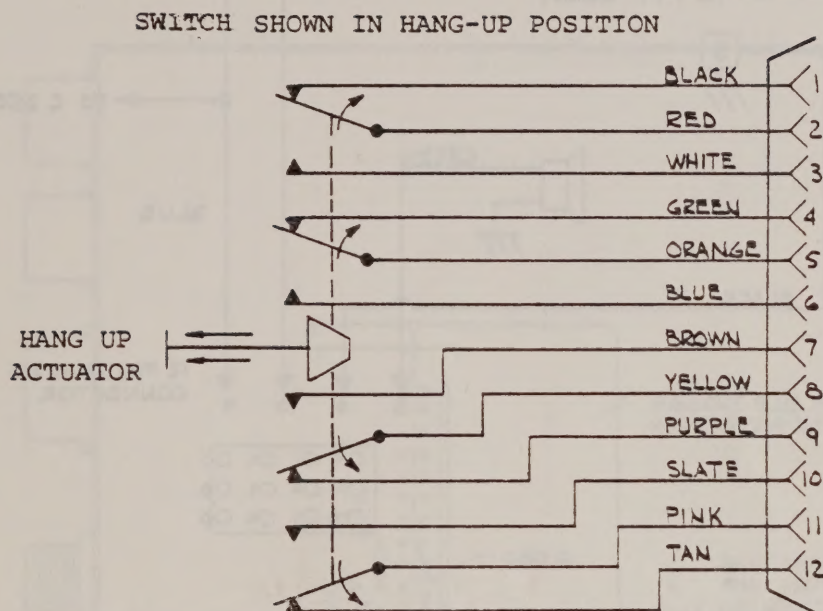
(MA-126)

BTL 301, 304 Series (5 Pin Microphone, after 5-1-75)

Refer to BTL 301, 304 Service Manual, Section 8, Page 8.

RADIO MODIFICATION TO CONNECT MA-126 TO BTL

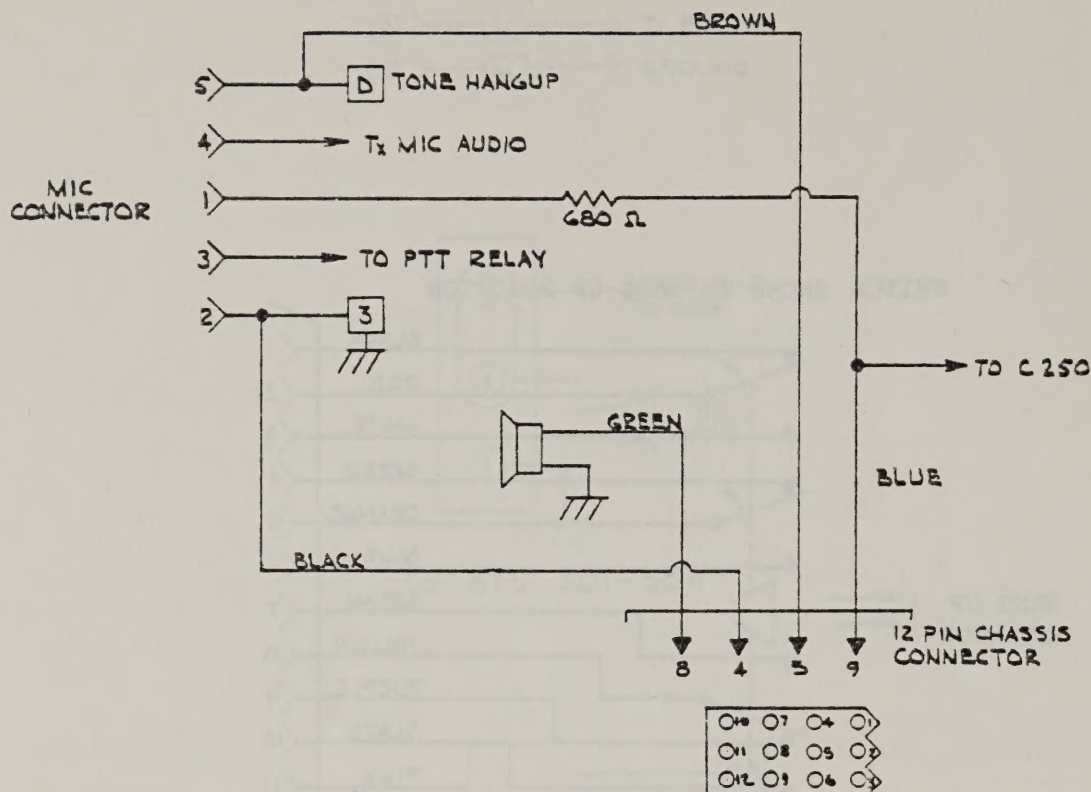
1. Connect handset mic connector.
2. Remove jumper strap on terminal board between terminals 2 and 3. (Located on back of radio)
3. Connect spade lugs to terminal board.
4. Add jumper wire from Pin 2 of DC input connector to Point AA located on transmitter board.
5. Solder lead 4 (orange) of hang-up switch to Pin 2 of DC cable connector.



HANG-UP SWITCH AND 12 PIN CONNECTOR

(MA-126)

BTH 200, Micro-Com 20 and Micro-Com U



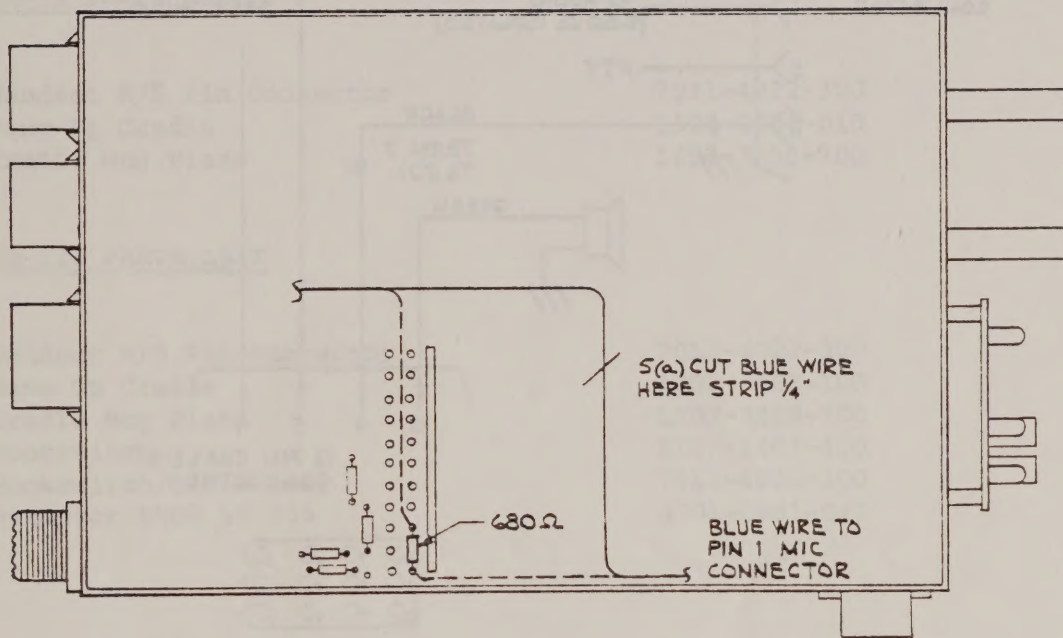
MIC CONNECTOR TO AUX CONNECTOR WIRING DIAGRAM

(MA-126)

BTH 200, Micro-Com 20 series (5 Pin Microphone, after 12-1-75)

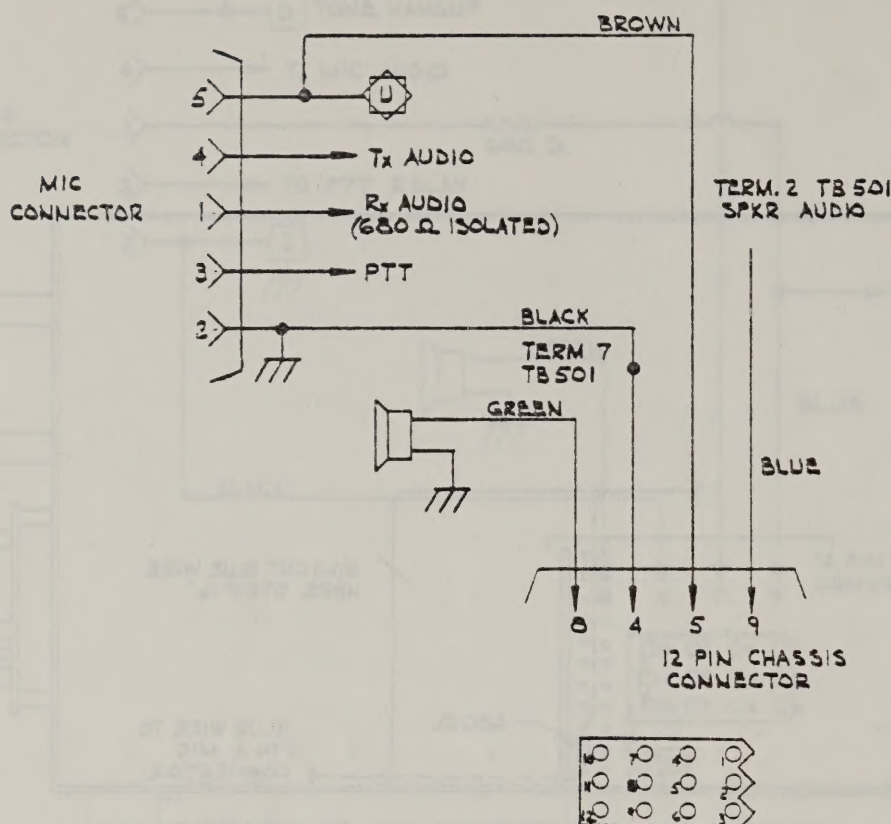
RADIO MODIFICATION TO CONNECT MA-126 TO BTH 200 AND Micro-Com 20

1. Desolder blue wire from speaker, add receptacle pin (Part #2107-3244-102). Solder and insert into position 9 of 12 pin connector body.
2. Solder green wire with a receptacle pin to speaker terminal previously desoldered and insert the pin into position 8 of 12 pin connector body.
3. Solder the brown wire with receptacle pin to Pin 5 of the microphone connector, and insert the pin into position 5 of the 12 pin connector body.
4. Solder the black wire with receptacle pin to Pin 2 of the microphone connector and insert pin into position 4 of the 12 pin connector body.
5. See diagram for addition of 680 Ω resistor. In tone units, remove screw from side of chassis and lift out tone board to perform operations. Replace tone board when work is completed.



BTH 200 SERIES AND MICRO-COM 20 SERIES 680Ω RESISTOR DETAIL

(MA-44, MA-79, & MA-126)



HANG-UP SWITCH

MICRO-COM U SERIES RADIOS

(MA-126)

RADIO MODIFICATION TO CONNECT MA-126 TO MICRO-COM U

1. Desolder blue wire from speaker. Add receptacle Pin (Part #2107-3244-102). Solder and insert into Position 9 of 12 pin connector body.
2. Solder green wire with receptacle pin to speaker terminal previously desoldered and insert the pin into position 8 of the 12 pin connector body.
3. Solder the brown wire with receptacle pin to Pin 5 of the microphone connector and insert the pin in position 5 of the 12 pin connector body.
4. Solder the black wire with receptacle pin to TB501 terminal 7, and insert the pin into position 4 of the 12 pin connector body.

MA-44 PARTS LIST

| | |
|---------------------------|---------------|
| Handset W/4 Pin Connector | 7010-1040-300 |
| Hang Up Cradle | 1303-0000-010 |
| Cradle Mtg Plate | 1303-3258-700 |

MA-79 PARTS LIST

| | |
|---------------------------|---------------|
| Handset W/5 Pin Connector | 7011-4022-300 |
| Hang Up Cradle | 1303-0000-010 |
| Cradle Mtg Plate | 1303-3258-700 |

MA-126 PARTS LIST

| | |
|---|---------------|
| Handset W/5 Pin Connector | 7011-4022-300 |
| Hang Up Cradle | 1303-3403-100 |
| Cradle Mtg Plate | 1303-3258-700 |
| Hookswitch | 5117-1403-400 |
| Hookswitch/Cable Assy | 7011-4022-200 |
| Resistor 680 Ω $\frac{1}{4}$ W 10% | 4701-0681-042 |

